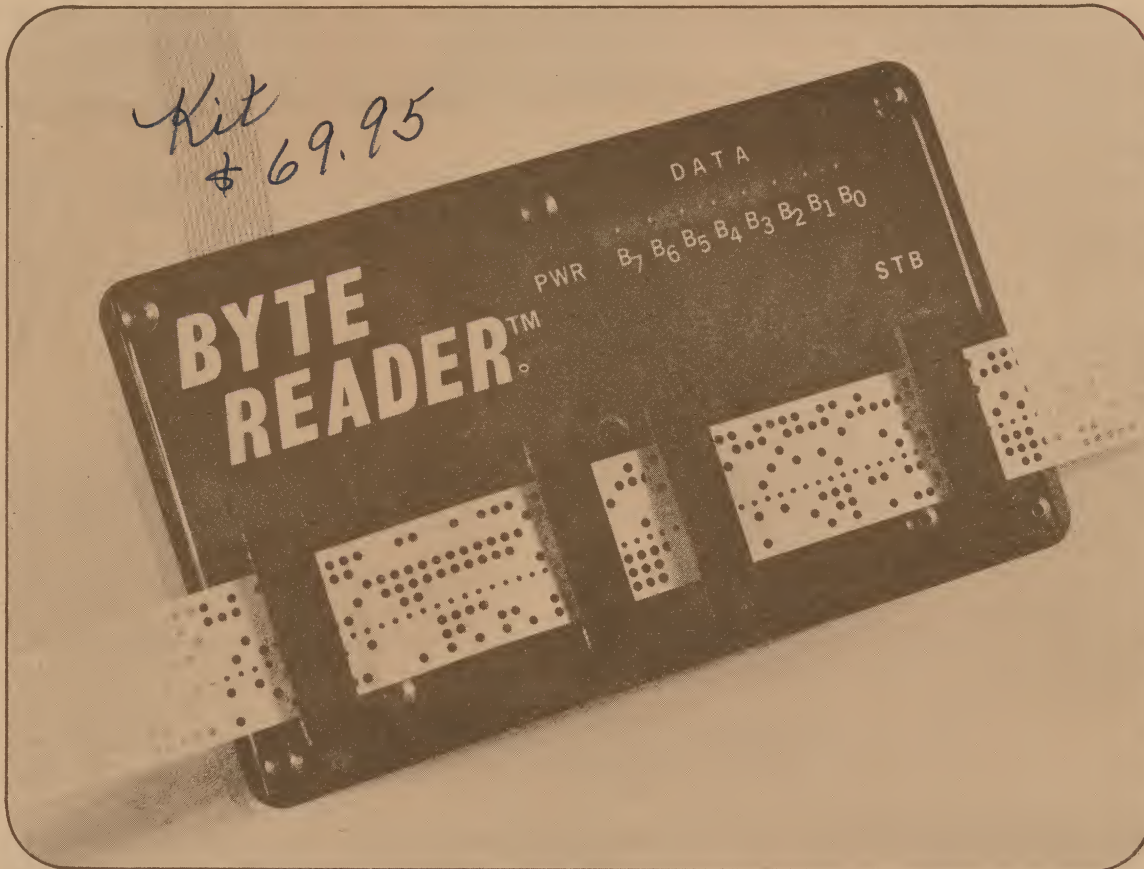


BYTE READER



FEATURES:

- Exclusive LITE OPTIMIZER™ circuit adjusts reader sensitivity level to light source
- LED indicators for data bits, strobe, and power
- Professional looking acrylic front panel with photo mask backing
- 8 bit parallel TTL output
- Selectable positive or negative handshake logic
- Factory mounted precision tape guides
- Attractive 3¾" x 6¼" skid resistant case
- Five foot interface cable supplied
- Silk screened PC board layout for easy assembly
- Manual operation up to 5000 char/sec
- 35 page technical manual featuring complete assembly, theory, and interfacing instructions

Power requirements: +5v at 250 ma

External light source: 10 watt to 100 watt household lamp

The BYTE READER™ is an inexpensive, yet versatile, optical paper tape reader designed to fill the needs of the computer hobbyist. Unlike similar products, the BYTE READER™ features an exclusive LITE OPTIMIZER™ circuit which senses the intensity of the external light source and automatically adjusts the sensitivity level of the photo transistors for proper operation. The BYTE READER™ features LED data bit indicators which enable you to visually verify data being sent to the computer. Topping off these features is an Acrylic front panel with photo mask backing which gives the BYTE READER™ a professional look you will be proud to show to your friends.

Prices: \$69.95 Kit

\$84.50 Assembled and tested

Include \$3.00 shipping and handling

MICROCOMPUTER KITS AND MANUALS

PAPER TAPE READER

The BYTE READER™ is an inexpensive, yet versatile, optical paper tape reader with several exclusive features including LED data indicators, and a LITE OPTIMIZER™ for adjusting the sensitivity level of the photo sensors to the ambient light level.

Kit price is \$69.95 or \$84.50 assembled and tested. Manual available separately for \$4.95. Available now.

TVPS

The trivoltage power supply was designed as an add-on regulator board for the IMSAI 8080 computer and serves as a 5 volt, 3 amp and ± 12 volt, 1 amp regulator for powering micro-computer accessories. It has mounting holes for attachment to the back of the front panel in the power supply section of the IMSAI. It may also be used as an outboard regulator for many other hobbyist computers. Dimensions are 3" x 5½" x 1" high.

Kit available for \$19.95 or \$24.95 assembled and tested. Available in February.

Manual available for \$2.00 now.

TIM-1

The Teletypewriter Interface Module is used to interface a computer's RS232C compatible or TTL serial I/O port to a 60 ma, high voltage loop required by many of the older style teletypewriters. This module features a self contained power supply, local/line switch and either full or half duplex operation.

The kit includes two jacks for the printer and keyboard and a 10' cable for the serial I/O port connections.

Kit priced at \$29.95 or \$39.95 assembled and tested. Delivery starting in February.

Manual available now for \$2.00.

ASCII KEYBOARD

The AK-1 ASCII encoded keyboard kit utilizes the KR2376 ROM for code generation including upper and lower case and control characters. Other standard features include electronic shift lock and unlock, 2 key rollover, N-key lockout, user defined keys, repeat circuit, fully buffered outputs, one piece keyswitch assembly, and a 16 pin DIP socket output. Optional features include onboard voltage regulators, sockets for all ICs, LED data indicators and serial interface kit. Standard output is parallel TTL with latched or unlatched strobe.

Standard kit price is \$69.95 or \$84.50 with all options. For fully assembled and tested kits add \$15.00. Technical manual available for \$4.95.

Kit available in February.

Each manual contains full assembly, theory and interfacing instructions.

MICROTRONICS PROM PROGRAMMING

MICROTRONICS offers the computer hobbyist the capability to store utility programs (such as program loaders, assemblers, editors, etc.) and other often used software in 1702A EPROMS which are low in cost and may be easily erased and programmed again. We operate a fast turnaround, quality programming service for 1702A EPROMS. Data to be programmed may be in the form of a binary paper tape, a 1702A EPROM to be copied or on hex coding sheets which are free for an SASE. You can supply your own 1702A EPROM or you can purchase prime quality EPROMS from MICROTRONICS. After the EPROM is programmed you get a hard copy printout of its contents. We offer computer club and group quantity discounts. Write for details.

8080 SOFTWARE IN 1702A PROMS

BYTE CHECKER—Memory test and clear program

Get rid of program glitches by eliminating bad memory chips! Run this program to check for bad memory bits before you load in your software. You select the memory pages to be tested by inputting starting and ending addresses in 0000-0003. Program tests each memory bit and prints out address of error byte with byte written and byte read. During the program, memory is cleared initializing it for your software. Program assembled at FC00. Price \$9.95.

PROGRAM LOADER

Are you tired of toggling in your bootstrap loaders for BASIC or your other software? We have just the solution! This loader has the Altair BASIC loader, a binary loader and the loader for Software Package #1. You input load address in 0000, 0001. Assembled at FB00. Price is \$9.95 or supply your own loader routine and we'll program it in a nice shiny prom for \$12.00. Get rid of the "toggles" and start enjoying your machine!

CODE CONVERTER

For all you hams and hobbyists using 5 level Baudot machines here, is an ASCII to BAUDOT and a BAUDOT to ASCII code conversion program. You put the character in register B, call the program, and get the converted character back in register B. We include calling routines so you can put them in your program and get started right away. Assembled at FD00. Price is \$9.95.

VIDEO DRIVER

Talk about convenience! We found that putting the VDM Driver software in PROM got around using 2 bootstrap loaders which took about 10 minutes to use. Now you just call the program at address FE00 and it works! To spice it up a little, we added an option to simultaneously direct the output to serial port 1 if program switch A14 is lifted up. This option is great for selected hard copy without having to change your program. Price for two proms is \$19.95. Be sure to specify your I/O flags for this one.

All software includes 1702A PROM—assembly at different address \$2 extra. Include your I/O routine or address of routine if different from below:

STATUS PORT = 0

SERIAL PORT = 1

TBE = 80H

RDA = 40H

Custom interfacing available—WRITE!

SERVICE FOR COMPUTER HOBBYISTS

PRICE SCHEDULE

SERVICE

COST PER USER SUPPLIED EPROM

Copy 1702A to 1702A

\$1.00

Program 1702A—Binary Paper Tape Input

\$2.00

Program 1702A—Hex Coding Form Input

\$3.00

Erase 1702A (Free with programming)

\$1.00

1702A EPROM (fully tested)

\$9.00

Minimum order \$3.00

Include 50¢ postage and handling.

MICROTRONICS CATALOGUE 1977

Serving the computer hobbyist

P.O. Box 7454-C, Menlo Park, Calif. 94025

**MICROTRONICS
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Computer Faire S. D.

Mail to: P.O. Box 7454C
Menlo Park, Ca. 94025

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